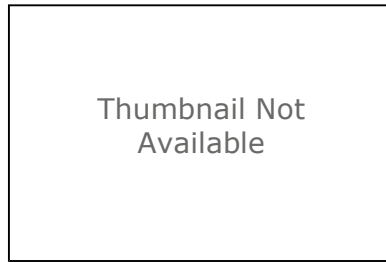


# Potentiometric Surface Map of The Bedrock Aquifers of Decatur County, Indiana

## Shapefile



## Tags

Potentiometric surface, static water level, groundwater, water wells, water tables, Decatur County, Indiana, USA

## Summary

Display and/or analyses requiring spatial distribution of potentiometric surface elevations in Decatur County.

## Description

This file is a digital geospatial polyline coverage of the bedrock potentiometric surface elevations mapped for Decatur County Indiana.

## Credits

It is requested that the Indiana Department of Natural Resources, Division of Water be cited in any products generated from this data.

## Use limitations

Acknowledgement of the following agency in products derived from these data: Indiana Department of Natural Resources, Division of Water. This map was compiled by staff of the Indiana Department of Natural Resources, Division of Water using data believed to be reasonably accurate. However, a degree of error is inherent in all maps. This product is distributed "as-is" without warranties of any kind, either expressed or implied. The maps are intended for use only at the published scale. The information on these media is proprietary to the State of Indiana, Indiana Department of Natural Resources, Division of Water. Any copying, adaptation, or distribution of these data without the express written consent of IDNR-DOW is discouraged. It is not recommended that these data be used for purposes other than general estimate of static water level elevations. Site specific conditions may vary considerably from mapped estimates.

## Extent

**West** -85.689118    **East** -85.298446  
**North** 39.456319    **South** 39.127035

## Scale Range

**Maximum (zoomed in)** 1:5,000  
**Minimum (zoomed out)** 1:150,000,000

## ArcGIS Metadata ►

## Topics and Keywords ►

THEMES OR CATEGORIES OF THE RESOURCE    geoscientificInformation

\*CONTENT TYPE    Downloadable Data

EXPORT TO FGDC CSDGM XML FORMAT AS RESOURCE DESCRIPTION    No

PLACE KEYWORDS    Decatur, Indiana, USA

THEME KEYWORDS    Potentiometric surface, static water level, groundwater, water wells, water tables

## Citation ►

**TITLE** Potentiometric Surface Map of The Bedrock Aquifers of Decatur County, Indiana

**CREATION DATE** 2014-11-03 00:00:00

**PUBLICATION DATE** 2014-11-03 00:00:00

**EDITION** 1

**EDITION DATE** 2014-11-03

**PRESENTATION FORMATS** \*digital map

### SERIES

**NAME** Bedrock Potentiometric Surface Map

**ISSUE** PSM 47-B

### OTHER CITATION DETAILS

This map was compiled from multiple unpublished work maps based on USGS quadrangles at 1:24,000 scale: Adams, Clarksburg, Forest Hill, Grammer, Greensburg, Hartsville, Millhousen, Milroy, New Point, Osgood, Waldron, and Westport.

[Hide Citation ▲](#)

## Citation Contacts ►

### RESPONSIBLE PARTY

**INDIVIDUAL'S NAME** Glenn E. Grove

**ORGANIZATION'S NAME** Indiana Department of Natural Resources, Division of Water

**CONTACT'S POSITION** Resource Assessment Section

**CONTACT'S ROLE** originator

### CONTACT INFORMATION ►

#### PHONE

**VOICE** 317-232-4160

**FAX** 317-233-4579

#### ADDRESS

**TYPE** both

**DELIVERY POINT** 402 W. Washington Street W264

**CITY** Indianapolis

**ADMINISTRATIVE AREA** Indiana

**POSTAL CODE** 46204

**COUNTRY** UNITED STATES

**E-MAIL ADDRESS** [ggrove@dnr.IN.gov](mailto:ggrove@dnr.IN.gov)

#### HOURS OF SERVICE

8:15am - 4:15pm M-F except Government Holidays

[Hide Contact information ▲](#)

### RESPONSIBLE PARTY

**ORGANIZATION'S NAME** Indiana Department of Natural Resources, Division of Water

**CONTACT'S ROLE** publisher

### CONTACT INFORMATION ►

#### ADDRESS

**TYPE**

DELIVERY POINT Indianapolis, Indiana, USA

[Hide Contact information ▲](#)

[Hide Citation Contacts ▲](#)

## Resource Details ►

DATASET LANGUAGES English (UNITED STATES)

DATASET CHARACTER SET utf8 - 8 bit UCS Transfer Format

STATUS completed

SPATIAL REPRESENTATION TYPE \* vector

\* PROCESSING ENVIRONMENT Microsoft Windows XP Version 5.1 (Build 2600) Service Pack 3; Esri ArcGIS 10.2.2.3552

### CREDITS

It is requested that the Indiana Department of Natural Resources, Division of Water be cited in any products generated from this data.

### ARCGIS ITEM PROPERTIES

\* NAME BED\_PSM\_Decatur

\* SIZE 1.266

\* LOCATION file://

\\iotfilp19pw\dnr\dow\common\RA\_FILES\_ONLINE\47\_Deactur\47\_Decatur\_County\_PSM\_Shapefiles\BED\_PSM\_Decatur.shp

\* ACCESS PROTOCOL Local Area Network

[Hide Resource Details ▲](#)

## Extents ►

### EXTENT

#### DESCRIPTION

Latitude Longitude

### EXTENT

#### GEOGRAPHIC EXTENT

##### BOUNDING RECTANGLE

EXTENT TYPE Extent used for searching

\* WEST LONGITUDE -85.689118

\* EAST LONGITUDE -85.298446

\* NORTH LATITUDE 39.456319

\* SOUTH LATITUDE 39.127035

\* EXTENT CONTAINS THE RESOURCE Yes

### EXTENT IN THE ITEM'S COORDINATE SYSTEM

\* WEST LONGITUDE 613302.481900

\* EAST LONGITUDE 646404.109700

\* SOUTH LATITUDE 4332239.751100

\* NORTH LATITUDE 4368244.349100

\* EXTENT CONTAINS THE RESOURCE Yes

[Hide Extents ▲](#)

## Resource Points of Contact ►

### POINT OF CONTACT

INDIVIDUAL'S NAME Glenn E. Grove

ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water

CONTACT'S POSITION Resource Assessment Section

CONTACT'S ROLE    author

CONTACT INFORMATION    ►

PHONE

VOICE    317-232-4160

FAX    317-233-4579

ADDRESS

TYPE    both

DELIVERY POINT    402 W. Washington Street W264

CITY    Indianapolis

ADMINISTRATIVE AREA    Indiana

POSTAL CODE    46204

COUNTRY    UNITED STATES

E-MAIL ADDRESS    ggrove@dnr.IN.gov

HOURS OF SERVICE

8:15am - 4:15pm M-F except Government Holidays

[Hide Contact information ▲](#)

[Hide Resource Points of Contact ▲](#)

## Resource Maintenance    ►

RESOURCE MAINTENANCE

UPDATE FREQUENCY    not planned

[Hide Resource Maintenance ▲](#)

## Resource Constraints    ►

CONSTRAINTS

LIMITATIONS OF USE

Acknowledgement of the following agency in products derived from these data: Indiana Department of Natural Resources, Division of Water. This map was compiled by staff of the Indiana Department of Natural Resources, Division of Water using data believed to be reasonably accurate. However, a degree of error is inherent in all maps. This product is distributed "as-is" without warranties of any kind, either expressed or implied. The maps are intended for use only at the published scale. The information on these media is proprietary to the State of Indiana, Indiana Department of Natural Resources, Division of Water. Any copying, adaptation, or distribution of these data without the express written consent of IDNR-DOW is discouraged. It is not recommended that these data be used for purposes other than general estimate of static water level elevations. Site specific conditions may vary considerably from mapped estimates.

LEGAL CONSTRAINTS

ACCESS CONSTRAINTS    other restrictions

OTHER CONSTRAINTS

The Indiana Department of Natural Resources, Division of Water has compiled this data set using data believed to be reasonably accurate. However, the Division makes no representation as to the accuracy, completeness, or usefulness of the data or data set. A degree of error is inherent in all maps. This map is intended for use only at the published scale. Reference to any specific commercial product, process, or service does not constitute an endorsement, recommendation, or favoring by the Division. Copyright 2014, Indiana Department of Natural Resources, Division of Water All Rights Reserved Any copying, adaptation, or distribution of these data without the express written consent of the Indiana Department of Natural Resources, Division of Water is discouraged.

[Hide Resource Constraints ▲](#)

## Spatial Reference    ►

ARCGIS COORDINATE SYSTEM

\*TYPE    Projected

\* GEOGRAPHIC COORDINATE REFERENCE   GCS\_North\_American\_1983

\* PROJECTION   NAD\_1983\_UTM\_Zone\_16N

\* COORDINATE REFERENCE DETAILS

PROJECTED COORDINATE SYSTEM

WELL-KNOWN IDENTIFIER   26916

X ORIGIN   -5120900

Y ORIGIN   -9998100

XY SCALE   450445547.3910538

Z ORIGIN   -100000

Z SCALE   10000

M ORIGIN   -100000

M SCALE   10000

XY TOLERANCE   0.001

Z TOLERANCE   0.001

M TOLERANCE   0.001

HIGH PRECISION   true

LATEST WELL-KNOWN IDENTIFIER   26916

WELL-KNOWN TEXT   PROJCS["NAD\_1983\_UTM\_Zone\_16N",GEOGCS["GCS\_North\_American\_1983",DATUM["D\_North\_American\_1983",SPHEROID["GRS\_1980",6378137.0,298.257222101]],PRIMEM["Greenwich",0.0],UNIT["Degree",0.0174532925199433]],PROJECTION["Transverse\_Mercator"],PARAMETER["False\_Easting",500000.0],PARAMETER["False\_Northing",0.0],PARAMETER["Central\_Meridian",-87.0],PARAMETER["Scale\_Factor",0.9996],PARAMETER["Latitude\_Of\_Origin",0.0],UNIT["Meter",1.0],AUTHORITY["EPSG",26916]]

REFERENCE SYSTEM IDENTIFIER

\* VALUE   26916

\* CODESPACE   EPSG

\* VERSION   8.2.6

Hide Spatial Reference ▲

Spatial Data Properties ►

VECTOR ►

\* LEVEL OF TOPOLOGY FOR THIS DATASET   geometry only

GEOMETRIC OBJECTS

FEATURE CLASS NAME   BED\_PSM\_Decatur

\* OBJECT TYPE   composite

\* OBJECT COUNT   106

Hide Vector ▲

ARCGIS FEATURE CLASS PROPERTIES ►

FEATURE CLASS NAME   BED\_PSM\_Decatur

\* FEATURE TYPE   Simple

\* GEOMETRY TYPE   Polyline

\* HAS TOPOLOGY   FALSE

\* FEATURE COUNT   106

\* SPATIAL INDEX   TRUE

\* LINEAR REFERENCING   FALSE

Hide ArcGIS Feature Class Properties ▲

Hide Spatial Data Properties ▲

Data Quality ►

SCOPE OF QUALITY INFORMATION ►

RESOURCE LEVEL   dataset

*Hide Scope of quality information ▲*

DATA QUALITY REPORT - COMPLETENESS OMISSION   ►

DIMENSION   horizontal

MEASURE DESCRIPTION

In conducting the mapping, the author(s) evaluated hundreds of water well records, especially those having relatively complete information on well location, static water level, well depth, ground elevation, and lithology. There were areas in the county with sparse information because of lack of well records or incomplete records.

*Hide Data quality report - Completeness omission ▲*

DATA QUALITY REPORT - QUANTITATIVE ATTRIBUTE ACCURACY   ►

DIMENSION   horizontal

MEASURE DESCRIPTION

The mapping was conducted after a thorough documentation of well locations and water well record details.

*Hide Data quality report - Quantitative attribute accuracy ▲*

DATA QUALITY REPORT - ABSOLUTE EXTERNAL POSITIONAL ACCURACY   ►

MEASURE DESCRIPTION

The locations of many wells were field checked and the locations posted on 7.5 minute topographic maps. Visual confirmation of wells was not always possible. Many locations were based only on the street address, driving directions, or other location information provided on the well record.

*Hide Data quality report - Absolute external positional accuracy ▲*

*Hide Data Quality ▲*

## Lineage ►

PROCESS STEP   ►

DESCRIPTION

Data were selected by careful evaluation of water well records to determine if the wells were field located and if they contained complete and reasonable information.

*Hide Process step ▲*

PROCESS STEP   ►

DESCRIPTION

After selection of water well records was complete, specific well data and other maps and reports were considered in the mapping process. For example, ground elevation, static water level, well depth, aquifer top and bottom elevation and lithology were obtained from well records. Other maps and reports included regional potentiometric surface elevations, hydrogeologic settings, groundwater availability, bedrock topography, and surface topography.

*Hide Process step ▲*

PROCESS STEP   ►

DESCRIPTION

A polyline coverage was created using the heads-up method and attributed by Glenn E. Grove. Attribute definitions

are described below.

[Hide Process step ▲](#)

#### SOURCE DATA ►

##### DESCRIPTION

Water well records from the IDNR-DOW well record database; USGS topography maps; various consultant geotechnical reports

#### SOURCE CITATION ►

**TITLE** Potentiometric Surface Map of the Bedrock Aquifers of Decatur County, Indiana

**PUBLICATION DATE** 2014-11-03 00:00:00

**CREATION DATE** 2014-11-03 00:00:00

**EDITION** 1

**EDITION DATE** 2014-11-03

##### SERIES

**NAME** Bedrock Potentiometric Surface Map

**ISSUE** PSM 46-B

##### RESPONSIBLE PARTY

**INDIVIDUAL'S NAME** Glenn E. Grove

**ORGANIZATION'S NAME** Indiana Department of Natural Resources, Division of Water

**CONTACT'S POSITION** Resource Assessment Section

**CONTACT'S ROLE** originator

##### RESPONSIBLE PARTY

**ORGANIZATION'S NAME** Indiana Department of Natural Resources, Division of Water

**CONTACT'S ROLE** publisher

[Hide Source citation ▲](#)

[Hide Source data ▲](#)

[Hide Lineage ▲](#)

## Distribution ►

#### DISTRIBUTOR ►

##### CONTACT INFORMATION

**INDIVIDUAL'S NAME** Glenn E. Grove

**ORGANIZATION'S NAME** Indiana Department of Natural Resources, Division of Water

**CONTACT'S POSITION** Resource Assessment Section

**CONTACT'S ROLE** distributor

##### CONTACT INFORMATION ►

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**FAX** 317-233-4579

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**CITY** Indianapolis

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POSTAL CODE 46204  
COUNTRY UNITED STATES  
E-MAIL ADDRESS ggrove@dnr.IN.gov

HOURS OF SERVICE  
8:15am - 4:15pm M-F except Government Holidays

[Hide Contact information ▲](#)

[Hide Distributor ▲](#)

DISTRIBUTION FORMAT  
\* NAME Shapefile

TRANSFER OPTIONS  
\* TRANSFER SIZE 1.266

ONLINE SOURCE  
LOCATION <http://www.in.gov/dnr/water/7256.htm>

[Hide Distribution ▲](#)

## Fields ►

DETAILS FOR OBJECT BED\_PSM\_Decatur ►

\* TYPE Feature Class  
\* ROW COUNT 106

DEFINITION  
polyline

DEFINITION SOURCE  
ESRI

FIELD FID ►

\* ALIAS FID  
\* DATA TYPE OID  
\* WIDTH 4  
\* PRECISION 0  
\* SCALE 0  
\* FIELD DESCRIPTION  
Internal feature number.

\* DESCRIPTION SOURCE  
ESRI

\* DESCRIPTION OF VALUES  
Sequential unique whole numbers that are automatically generated.

[Hide Field FID ▲](#)

FIELD Shape ►

\* ALIAS Shape  
\* DATA TYPE Geometry  
\* WIDTH 0  
\* PRECISION 0  
\* SCALE 0



\* FIELD DESCRIPTION

Feature geometry.

\* DESCRIPTION SOURCE

ESRI

\* DESCRIPTION OF VALUES

Coordinates defining the features.

[Hide Field Shape ▲](#)

FIELD STATIC\_E ►

\* ALIAS static\_e

\* DATA TYPE SmallInteger

\* WIDTH 4

\* PRECISION 4

\* SCALE 0

FIELD DESCRIPTION

Potentiometric surface in feet

DESCRIPTION SOURCE

IDNR

[Hide Field STATIC\\_E ▲](#)

[Hide Details for object BED\\_PSM\\_Decatur ▲](#)

[Hide Fields ▲](#)

## Metadata Details ►

\* METADATA LANGUAGE English (UNITED STATES)

METADATA CHARACTER SET utf8 - 8 bit UCS Transfer Format

SCOPE OF THE DATA DESCRIBED BY THE METADATA \*dataset

SCOPE NAME \*dataset

LAST UPDATE 2014-11-03

ARCGIS METADATA PROPERTIES

METADATA FORMAT ArcGIS 1.0

METADATA STYLE FGDC CSDGM Metadata

STANDARD OR PROFILE USED TO EDIT METADATA FGDC

CREATED IN ARCGIS FOR THE ITEM 2014-12-09 15:01:24

LAST MODIFIED IN ARCGIS FOR THE ITEM 2015-01-15 12:14:38

AUTOMATIC UPDATES

HAVE BEEN PERFORMED Yes

LAST UPDATE 2015-01-15 12:14:38

[Hide Metadata Details ▲](#)

## Metadata Contacts ►

METADATA CONTACT

INDIVIDUAL'S NAME Glenn E. Grove

ORGANIZATION'S NAME Indiana Department of Natural Resources, Division of Water

CONTACT'S POSITION   Resource Assessment Section

CONTACT'S ROLE   point of contact

CONTACT INFORMATION ▶

PHONE

VOICE   317-232-4160

FAX   317-233-4579

ADDRESS

TYPE   both

DELIVERY POINT   402 W. Washington Street W264

CITY   Indianapolis

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COUNTRY   UNITED STATES

E-MAIL ADDRESS   [ggrove@dnr.IN.gov](mailto:ggrove@dnr.IN.gov)

HOURS OF SERVICE

8:15am - 4:15pm M-F except Government Holidays

*Hide Contact information ▲*

*Hide Metadata Contacts ▲*

## Metadata Maintenance ▶

MAINTENANCE

UPDATE FREQUENCY   not planned

*Hide Metadata Maintenance ▲*

## Metadata Constraints ▶

LEGAL CONSTRAINTS

ACCESS CONSTRAINTS   other restrictions

OTHER CONSTRAINTS

Access constraints: This metadata file is intended to accompany the subject geospatial set. This file may be updated, and the most recent version is available by contacting the IDNR Division of Water.

*Hide Metadata Constraints ▲*

## FGDC Metadata (read-only) ▼